

Histone H2B type 1-M (Hist1h2bm) Recombinant Protein | Hist1h2bm recombinant protein

Recombinant Mouse Histone H2B type 1-M (Hist1h2bm)

CATALOG # AAA113803	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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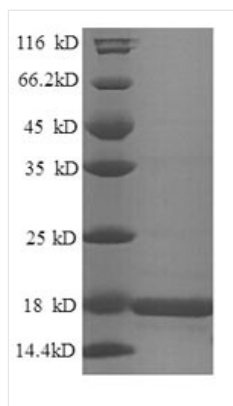
PRODUCT SYNONYMS

Histone H2B type 1-M (Hist1h2bm); Recombinant Mouse Histone H2B type 1-M (Hist1h2bm); H2B 291B; Hist1h2bm recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-126. Full length of the mature protein.
Sequence	PEPTKSAPAP KKGSKKAVTK AQKKGKKRK RSRKESYSVY VYKVLKQVHP DTGISSKAMG IMNSFVNDIF ERIAGEASRL AHYNKRSTIT SREIQTAVRL LLPGELAKHA VSEGTKAVTK YTSSK
Sequence Length	126
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Hist1h2bm recombinant protein	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
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References	Mouse histone H2A and H2B genes four functional genes and a pseudogene undergoing gene conversion with a closely linked functional gene.Liu T.-J., Liu L., Marzluff W.F.Nucleic Acids Res. 15:3023-3039(1987) The human and mouse replication-dependent histone genes.Marzluff W.F., Gongidi P., Woods K.R., Jin J., Maltais L.J.Genomics 80:487-498(2002) Lineage-specific biology revealed by a finished genome assembly of the mouse.Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamouisis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P.PLoS Biol. 7:E1000112-E1000112(2009) Phosphorylation of histone H2B at DNA double-strand breaks.Fernandez-Capetillo O., Allis C.D., Nussenzweig A.J. Exp. Med. 199:1671-1677(2004) Histone modifications associated with somatic hypermutation.Odegard V.H., Kim S.T., Anderson S.M., Shlomchik M.J., Schatz D.G.Immunity 23:101-110(2005) Signaling kinase AMPK activates stress-promoted transcription via histone H2B phosphorylation.Bungard D., Fuerth B.J., Zeng P.Y., Faubert B., Maas N.L., Viollet B., Carling D., Thompson C.B., Jones R.G., Berger S.L.Science 329:1201-1205(2010) Identification of 67 histone marks and histone lysine crotonylation as a new type of histone modification.Tan M., Luo H., Lee S., Jin F., Yang J.S., Montellier E., Buchou T., Cheng Z., Rousseaux S., Rajagopal N., Lu Z., Ye Z., Zhu Q., Wysocka J., Ye Y., Khochbin S., Ren B., Zhao Y.Cell 146:1016-1028(2011) SIRT5-mediated lysine desuccinylation impacts diverse metabolic pathways.Park J., Chen Y., Tishkoff D.X., Peng C., Tan M., Dai L., Xie Z., Zhang Y., Zwaans B.M., Skinner M.E., Lombard D.B., Zhao Y.Mol. Cell 50:919-930(2013)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	30061385
NCBI GeneID	319186
NCBI Accession #	NP_835507.1
NCBI GenBank Nucleotide #	NM_178200.2
UniProt Accession #	P10854; Q5T008
Molecular Weight	17.8 kDa
NCBI Official Full Name	histone H2B type 1-M
NCBI Official Synonym Full Names	histone cluster 1, H2bm
NCBI Official Symbol	Hist1h2bm
NCBI Official Synonym Symbols	H2b-291b
NCBI Protein Information	histone H2B type 1-M
UniProt Protein Name	Histone H2B type 1-M
UniProt Gene Name	Hist1h2bm
UniProt Entry Name	H2B1M_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.